

14th January



Corbettmaths

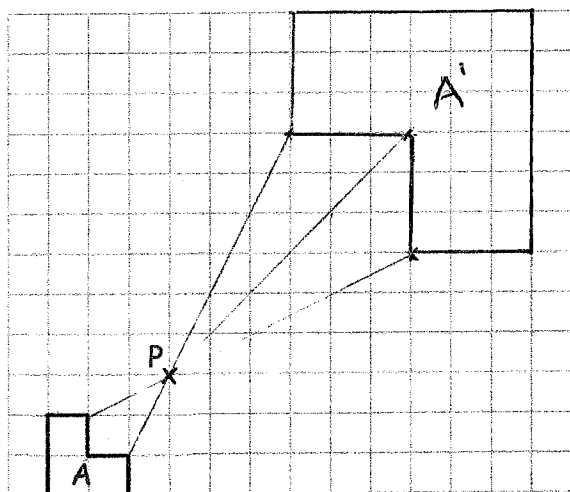
Make w the subject of

$$a + 3w^2 = s$$

$$3w^2 = s - a$$

$$w^2 = \frac{s - a}{3}$$

$$w = \sqrt{\frac{s - a}{3}}$$



Enlarge shape A by scale factor -3 , using the point P as centre of enlargement.

Simplify fully

$$\frac{x^2 + 6x + 8}{2x + 8}$$

$$\frac{(x+4)(x+2)}{2(x+4)} = \frac{x+2}{2}$$

Simplify

$$\frac{(3^6)^5}{9 \times 3^7}$$

$$\frac{3^{30}}{3^2 \times 3^7} = \frac{3^{30}}{3^9} = 3^{21}$$

Give your answer as a power of 3.